

**Regulatory Compliance
245 Albany Avenue
Thornwood, New York 10594
(914) 439-6513**

**Lead Concentration
In Drinking Water**

At

**Tuckahoe UFSD
65 Siwanoy Blvd
Eastchester, NY 10709**

**High School
Cottle School**

RegCom's Project Number: TUCK.1036.17.IH

Date of Survey:
April 23, 2017

Field Work performed by:
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Report Written by:
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May 5, 2017

ABSTRACT

The Tuckahoe UFSD retained Regulatory Compliance to test the water outlets in selected areas, as identified by the district, for lead contamination. The overall objective is to determine the lead content in drinking water in the districts buildings. The District has two (2) buildings.

A total of 56 samples were collected (including blanks) and analyzed for lead contaminants.

The water fountains /sinks that were tested are in compliance with the NYS *Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4*, with the exception of the sinks/water fountains listed in the Results Section of the report.

For all outlets that exceed the NYS Action Level action is required. In accordance with the Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4, if lead is detected the school is obligated to:

- Prohibit use of the outlet until a remediation plan is implemented and test results indicate that the lead levels are at or below the action level.
- Provide building occupants with an adequate supply of potable water for drinking and cooking until remediation is performed.
- Report the results to the local health department as soon as practicable but no more than 1 business day after the school received the laboratory report.
- Notify all staff and all persons in parental relation to students of the test results in writing as soon as practicable but no more than 10 business days after the school received the laboratory report.
- The school shall make available the results of all lead testing performed and remediation plans implemented on its website as soon as practicable, but no later than 6 weeks after the school received the laboratory results.
- If the sink isn't used for consumption or food preparation, in accordance with the NYS DOH regulation, Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4 and the FAQs posted on the NYS DOH website, FAQ #33, it appears that school might meet compliance by simply posting a sign (age appropriate) stating that the water should not be used for drinking or cooking.
- If aerators are present in the affected sinks (lead sediment can build up and leach out and end up in the drinking water), they should be removed cleaned, reinstalled and the fixture should be retested.
- Install a water filter to control the lead concentration and, maintain and replace the filter in accordance with the manufactures requirements/instructions. The process should be documented. The fixture should be retested.
- If a water filter was in use and the unit's lead concentration exceeded the regulatory limit, then the filter should be replaced and the unit retested.

TABLE OF CONTENTS

ABSTRACT	2
TABLE OF CONTENTS	3
1.0 INTRODUCTION	4
2.0 SAMPLING METHODOLOGY	4
3.0 RESULTS	4
4.0 10 NYCRR Subpart 67-4 REQUIREMENTS, RECOMMENDATIONS RECOMMENDATIONS & REMINDERS	5

Appendix

Appendix A
Appendix B

**Laboratory Results for Lead
Implementation Guidance for Subpart 67-4 Lead Testing in
School Drinking Water (FAQs)**

1.0 INTRODUCTION

The Tuckahoe UFSD retained Regulatory Compliance to test the water outlets in selected areas, as identified by the district, for lead contamination. The overall objective is to determine the lead content in drinking water in the districts buildings. The District has two (2) buildings.

Lead is a toxic metal that can be harmful when ingested (or inhaled), and young children are particularly sensitive to the effects of lead. Lead can get into drinking water by being present in the source water, or by interaction of the water with plumbing materials containing lead (through corrosion). Common sources of lead in drinking water include: solder, fluxes, pipes and pipefittings, fixtures, and sediments. Thus, it is possible that different water outlets in a given building could have dissimilar concentrations of lead. Lead in drinking water is regulated under the Safe Drinking Water Act (1974) as amended. The Lead Contamination Control Act (LCCA) amended the Safe Drinking Water Act and is aimed at identifying and reducing lead in drinking water in schools (and day care facilities). In April 1994, EPA prepared two guidance documents to assist municipalities in meeting the requirements of the LCCA. On September 6, 2016 the Department of Health DOH issued emergency regulations for the implementation of the new law, *Lead Testing in School Drinking Water*, the regulations became Subpart 67-4 of Title 10 (Health) of the Official Compilation of Codes, Rule and Regulations of the State of New York.

2.0 SAMPLING METHODOLOGY

Samples were collected in accordance with the *Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4.3*. A first-draw sample was collected in a wide mouth 250 mL bottle and collected from a cold water outlet before the water is used. The water was motionless in the pipes for a minimum of 8 hours but not more than 18 hours prior to collection.

3.0 RESULTS

The water fountains /sinks that were tested are in compliance with the NYS *Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4*, with the exception of the sinks/water fountains listed in the Results Section of the report.

Table 1.0 Locations that are above the lead EPA Action Level of 0.015 mg/L:

Number	Sample ID #	Location High School	Concentration (mg/L)	Comments
1	10	Room 352, Science Lab, Sink #1	0.031	Sink (counting from left to right)
2	11	Room 352, Science Lab, Sink #2	0.098	Sink (counting from left to right)
3	13	Room 352, Science Lab, Sink #4	0.016	Sink (counting from left to right)
4	14	Room 352, Science Lab, Sink #5	0.020	Sink (counting from left to right)

Number	Sample ID #	Location High School	Concentration (mg/L)	Comments
5	15	Room 352, Science Lab, Sink #6	0.046	Sink (counting from left to right)
6	20	Room 253, Science Lab, Sink #6	0.194	Sink (counting from left to right)
7	21	Room 253, Science Lab, Sink #7	0.080	Sink (counting from left to right)
8	25	Room 252, Science Lab, Sink #3	0.022	Sink (counting from left to right)
9	30	Room 252, Science Lab, Sink #8	0.029	Sink (counting from left to right)
10	36	Room 250, Science Lab, Sink #6	0.017	Sink (counting from left to right)
11	37	Room 250, Science Lab, Sink #7	0.178	Sink (counting from left to right)
12	38	Room 150, Science Lab, Sink #1	0.021	Sink (counting from left to right)
13	44	Men's Room – Near Superintendent's Office	0.047	Sink
14	45	Cafeteria Handwashing sink	0.016	Sink

Table 2.1 Locations that are above the lead EPA Action Level of 0.015 mg/L:

Number	Sample ID #	Location Cottle Ele.	Concentration (mg/L)	Comments
1	1	Women's Faculty Bathroom, Room 211	0.019	Sink

4.0 10 NYCRR Subpart 67-4 REQUIREMENTS, RECOMMENDATIONS & REMINDERS

10 NYCRR Subpart 67-4 Requirements:

- For all outlets that exceed the NYS Action Level action is required. In accordance with the Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4, if lead is detected the school is obligated to:
 - Prohibit use of the outlet until a remediation plan is implemented and test results

- indicate that the lead levels are at or below the action level.
- Provide building occupants with an adequate supply of potable water for drinking and cooking until remediation is performed.
- Report the results to the local health department as soon as practicable but no more than 1 business day after the school received the laboratory report.
- Notify all staff and all persons in parental relation to students of the test results in writing as soon as practicable but no more than 10 business days after the school received the laboratory report.
- The school shall make available the results of all lead testing performed and remediation plans implemented on its website as soon as practicable, but no later than 6 weeks after the school received the laboratory results.

Recommendations:

- If the sink isn't used for consumption or food preparation, in accordance with the NYS DOH regulation, Lead testing in School Drinking Water – 10 NYCRR Subpart 67-4 and the FAQs posted on the NYS DOH website, FAQ #33, it appears that school might meet compliance by simply posting a sign (age appropriate) stating that the water should not be used for drinking or cooking.
- If aerators are present in the affected sinks (lead sediment can build up and leach out and end up in the drinking water), they should be removed cleaned, reinstalled and the fixture should be retested.
- Install a water filter to control the lead concentration and, maintain and replace the filter in accordance with the manufactures requirements/instructions. The process should be documented. The fixture should be retested.
- If a water filter was in use and the unit's lead concentration exceeded the regulatory limit, then the filter should be replaced and the unit retested.


Laboratory Results for Lead in water

**Implementation Guidance for Subpart 67-4 Lead Testing in School Drinking Water
(FAQs)**

Eastern Analytical Services, Inc.

Water Sample Report

RE: CPN TUCK-1036-17-IH - Cottle School

Date Collected: 04/22/2017
 Collected By: Nicholas Coon
 Date Received: 04/24/2017
 Date Analyzed: 04/25/2017
 Analyzed By: Ernest Sanchez
 Signature: 
 Analyte: Pb Water
 Analytical Method: EPA 200.9
 NYS Lab Number: 10851

Client: RegCom
 245 Albany Avenue
 Thornwood, NY 10594

Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
1 2486943	Girl's Faculty Bathroom by Room 211 - Sink	Water	0.019 mg/L
2 2486944	Speech Therapy Room 374 - Sink #1 - Left to Right	Water	0.005 mg/L
3 2486945	Speech Therapy Room 374 - Sink #2 - Left to Right	Water	0.006 mg/L
4 2486946	Speech Therapy Room 374 - Sink #3 - Left to Right	Water	BDL < 0.001 mg/L
5 2486947	Speech Therapy Room 374 - Sink #4 - Left to Right	Water	BDL < 0.001 mg/L
6 2486948	Speech Therapy Room 374 - Sink #5 - Left to Right	Water	0.009 mg/L
7 2486949	Not Applicable	Water Blank	BDL < 0.001 mg/L

BDL = Below Detectable Limits

Liability Limited to Cost of Analysis


Results Applicable to Those Items Tested

AIHA Accreditation No. 418 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA 024 Vermont DOH No. AAS-2095

Eastern Analytical Services, Inc.

Water Sample Report

RE: CPN TUCK-1036-17-IH - High School

Date Collected: 04/23/2017
 Collected By: Nicholas Coon
 Date Received: 04/24/2017
 Date Analyzed: 04/25/2017
 Analyzed By: Ernest Sanchez
 Signature: 
 Analyte: Pb Water
 Analytical Method: EPA 200.9
 NYS Lab Number: 10851

Client: RegCom
 245 Albany Avenue
 Thornwood, NY 10594


Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
1 2486950	Men's Bathroom by Room 268 - Sink #1 - Left to Right	Water	0.013 mg/L
2 2486951	Men's Bathroom by Room 268 - Sink #2 - Left to Right	Water	0.010 mg/L
3 2486952	Room 351 Science Room - Sink #1 - Left to Right	Water	0.009 mg/L
4 2486953	Room 351 Science Room - Sink #2 - Left to Right	Water	0.001 mg/L
5 2486954	Room 351 Science Room - Sink #3 - Left to Right	Water	0.001 mg/L
6 2486955	Room 351 Science Room - Sink #4 - Left to Right	Water	0.001 mg/L
7 2486956	Room 351 Science Room - Sink #5 - Left to Right	Water	0.006 mg/L
8 2486957	Room 351 Science Room - Sink #6 - Left to Right	Water	0.005 mg/L
9 2486958	Room 351 Teacher's Desk Sink - Sink #7 - Left to Right	Water	0.002 mg/L

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 245 Albany Avenue
 Thornwood, NY 10594

Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
10 2486959	Room 352 Science Room - Sink #1 - Left to Right	Water	0.031 mg/L
11 2486960	Room 352 Science Room - Sink #2 - Left to Right	Water	0.098 mg/L
12 2486961	Room 352 Science Room - Sink #3 - Left to Right	Water	0.010 mg/L
13 2486962	Room 352 Science Room - Sink #4 - Left to Right	Water	0.016 mg/L
14 2486963	Room 352 Science Room - Sink #5 - Left to Right	Water	0.020 mg/L
15 2486964	Room 352 Science Room - Sink #3 - Left to Right	Water	0.046 mg/L
16 2486965	Room 352 Science Room - Sink #7 - Left to Right	Water	0.012 mg/L
17 2486966	Room 253 Science Room - Sink #3 - Left to Right	Water	0.003 mg/L
18 2486967	Room 253 Science Room - Sink #4 - Left to Right	Water	0.007 mg/L


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 Analyzed By: Ernest Sanchez
 Signature: 
 Analyte: Pb Water
 Analytical Method: EPA 200.9
 NYS Lab Number: 10851

Client: RegCom
 245 Albany Avenue
 Thornwood, NY 10594


Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
19 2486968	Room 253 Science Room - Sink #5 - Left to Right	Water	0.015 mg/L
20 2486969	Room 253 Science Room - Sink #6 - Left to Right	Water	0.194 mg/L
21 2486970	Room 253 Science Room - Sink #7 - Left to Right	Water	0.080 mg/L
22 2486971	Room 253 Science Room - Sink #8 - Left to Right	Water	0.008 mg/L
23 2486972	Room 252 Science Room - Teacher's Sink - Sink #1 - Left to Right	Water	0.011 mg/L
24 2486973	Room 252 Science Room - Sink #2 - Left to Right	Water	0.003 mg/L
25 2486974	Room 252 Science Room - Sink #3 - Left to Right	Water	0.022 mg/L
26 2486975	Room 252 Science Room - Sink #4 - Left to Right	Water	0.014 mg/L
27 2486976	Room 252 Science Room - Sink #5 - Left to Right	Water	0.005 mg/L

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 Analyzed By: Ernest Sanchez
 Signature: 
 Analyte: Pb Water
 Analytical Method: EPA 200.9
 NYS Lab Number: 10851

Client: RegCom
 245 Albany Avenue
 Thornwood, NY 10594

Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
28 2486977	Room 252 Science Room - Sink #6 - Left to Right	Water	0.009 mg/L
29 2486978	Room 252 Science Room - Sink #7 - Left to Right	Water	0.004 mg/L
30 2486979	Room 252 Science Room - Sink #8 - Left to Right	Water	0.029 mg/L
31 2486980	Room 250 Science Room - Sink #1 - Left to Right	Water	0.014 mg/L
32 2486981	Room 250 Science Room - Sink #2 - Left to Right	Water	0.003 mg/L
33 2486982	Room 250 Science Room - Sink #3 - Left to Right	Water	0.015 mg/L
35 2486983	Room 250 Science Room - Sink #5 - Left to Right	Water	0.009 mg/L
36 2486984	Room 250 Science Room - Sink #6 - Left to Right	Water	0.017 mg/L
37 2486985	Room 250 Science Room - Teacher's Sink - Sink #7 - Left to Right	Water	0.178 mg/L

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Liability Limited to Cost of Analysis

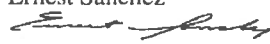
Results Applicable to Those Items Tested

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 Signature: 
 Analyte: Pb Water
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 NYS Lab Number: 10851

Client: RegCom
 245 Albany Avenue
 Thornwood, NY 10594

Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
38 2486986	Room 150 Science Room - Sink #1 - Left to Right	Water	0.021 mg/L
39 2486987	Room 150 Science Room - Sink #2 - Left to Right	Water	0.004 mg/L
40 2486988	Room 150 Science Room - Sink #3 - Left to Right	Water	0.003 mg/L
41 2486989	Room 150 Science Room - Sink #4 - Left to Right	Water	0.001 mg/L
42 2486990	Room 150 Science Room - Sink #5 - Left to Right	Water	0.007 mg/L
43 2486991	Room 150 Science Room - Sink #6 - Left to Right	Water	0.007 mg/L
44 2486992	Men's Bathroom by Superintendent's Office - Sink	Water	0.047 mg/L
45 2486993	Hand Wash Sink in Cafeteria - Sink	Water	0.016 mg/L
46 2486994	Water Spigot Outside by Football Field - Spigot #1 - Left to Right	Water	0.009 mg/L

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Results Applicable to Those Items Tested

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 Collected By: Nicholas Coon
 Date Received: 04/24/2017
 Date Analyzed: 04/25/2017
 Analyzed By: Ernest Sanchez
 Signature: 
 Analyte: Pb Water
 Analytical Method: EPA 200.9
 NYS Lab Number: 10851

Client: RegCom
 245 Albany Avenue
 Thornwood, NY 10594

Sample ID# / Lab ID#	Sample Location	Sample Notes	Concentration
47 2486995	Water Spigot Outside by Football Field - Spigot #2 - Middle Spigot	Water	0.007 mg/L
48 2486996	Maintenance Room - Sink	Water	BDL < 0.001 mg/L
49 2486997	Not Applicable	Water Blank	BDL < 0.001 mg/L